

Amendments to the Claims:

1 – 18 (canceled)

19. (currently amended) A metallic protective layer, consisting ~~essentially~~ of:

11.5 to 20.0 % chromium (wt%);

1.5 % silicon (wt%);

less than 1.0 % aluminum (wt%);

up to 0.7 % (wt%) of at least one metal selected from the group consisting of scandium and the rare earth elements; and

remainder iron and production-related impurities.

20. (currently amended) The metallic protective layer as claimed in claim 19, ~~further comprising up to 0.7 % yttrium (wt%).~~ wherein yttrium is a selected one metal.

21. (currently amended) The metallic protective layer as claimed in claim 20, wherein the metallic protective layer ~~comprises~~ consists of:

12.5 to 14.0% chromium;

0.1 to 0.5% aluminum.

22. (currently amended) A layer system, comprising:

a metallic substrate; and

a metallic protective layer applied and bonded to the substrate by adhesion, ~~comprising~~ consisting of:

11.5 to 20.0 % chromium (wt%),

1.5 % silicon (wt%),

less than 1.0 % aluminum (wt%), and

~~up to 0.7 % (wt%) of at least one metal selected from the group consisting of scandium and the rare earth elements, and~~

remainder iron and production-related impurities.

23. (previously presented) The layer system as claimed in claim 22, wherein the substrate is ceramic or an iron-base, nickel-base or cobalt-base superalloy.

24. (previously presented) The layer system as claimed in claim 23, wherein the metallic protective layer is ferritic.

25. (previously presented) The layer system as claimed in claim 24, wherein the metallic protective layer and the substrate are ferritic.

26. (previously presented) The layer system as claimed in claim 25, wherein the layer system is not diffusion treated.

27. (previously presented) The layer system as claimed in claim 26, wherein the coefficients of thermal expansion of the ferritic protective layer and of the ferritic substrate are within 10% of each other.

28. (previously presented) The layer system as claimed in claim 27, wherein the substrate is 1% CrMoV steel or a 10 to 12% chromium steel.

29. (canceled).

30. (previously presented) The layer system as claimed in claim 28, wherein a zirconium oxide based thermal barrier coating is applied to the metallic protective layer to form a turbine component.

31. (previously presented) The layer system as claimed in claim 30, wherein the turbine component is selected from the group consisting of: a turbine blade, a turbine vane, a housing part, a region of a housing, and a combustion chamber lining.

32. (previously presented) The layer system as claimed in claim 31, wherein the protective layer thickness is between 100  $\mu\text{m}$  and 300  $\mu\text{m}$ .

33. (previously presented) The layer system as claimed in claim 32, wherein the layer system is suitable for exposure to a temperature of up to 950°C.

34. (currently amended) A high temperature gas turbine component, comprising:  
a metallic or ceramic substrate; and  
a metallic protective layer comprising:

11.5 to 20.0 % chromium (wt%),

0.3 to 1.5 % silicon (wt%),

less than 1.0 % aluminum (wt%),

up over 0.2 to 0.7 % (wt%) of at least one metal selected from the group consisting of scandium and the rare earth elements, and

remainder iron and impurities, wherein the metallic protective layer is applied and bonded to the substrate by adhesion.

35. (previously presented) The component as claimed in claim 34, wherein the component substrate is a iron-based, nickel-based or cobalt-based super alloy.

36. (previously presented) The component as claimed in claim 35, wherein the component is selected from the group consisting of: a turbine blade, a turbine vane, a housing part, a region of a housing, and a combustion chamber lining.

37. (previously presented) The component as claimed in claim 36, wherein the metallic protective layer thickness is between 100 µm and 300 µm.

38. (previously presented) The component as claimed in claim 37, wherein the metallic protective layer comprises:

12.5 to 14.0% chromium;

0.5 to 1.0% silicon;

0.1 to 0.5% aluminum.